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NEWS 12	JUL 28	EPFULL adds first-page images and applicant-cited references
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FILE COVERS 1907 - 21 Sep 2009 VOL 151 ISS 13
FILE LAST UPDATED: 20 Sep 2009 (20090920/ED)
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USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

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=> s biphenyl and nitro and (absorption or absorbance) and substituent
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         82047 BIPHENYL
         20182 BIPHENYLS
         86210 BIPHENYL
                 (BIPHENYL OR BIPHENYLS)
        176403 NITRO
            93 NITROS
        176466 NITRO
                 (NITRO OR NITROS)
       1040310 ABSORPTION
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         14519 ABSORPTIONS
       1046692 ABSORPTION
                 (ABSORPTION OR ABSORPTIONS)
         86704 ABSORBANCE
          5626 ABSORBANCES
         90529 ABSORBANCE
                 (ABSORBANCE OR ABSORBANCES)
        123055 SUBSTITUENT
        111786 SUBSTITUENTS
        202744 SUBSTITUENT
                 (SUBSTITUENT OR SUBSTITUENTS)
L1          49 BIPHENYL AND NITRO AND (ABSORPTION OR ABSORBANCE) AND SUBSTITUEN
               T

=> s l1 and py<=2003
     24036251 PY<=2003
L2          48 L1 AND PY<=2003

=> d l2 1-48 ti

L2   ANSWER 1 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Electrochemical, conductive, and magnetic properties of
     2,7-carbazole-based conjugated polymers

L2   ANSWER 2 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Optical diagnostic agents for diagnosis of neurodegenerative diseases by
     means of near infra-red radiation (NIR radiation)

L2   ANSWER 3 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Photophysics of PBD derivatives. I. The fluorescence of
     para-biphenylyl-substituted 2-(biphenyl
     -4'-yl)-5-phenyl-1,3,4-oxadiazoles

L2   ANSWER 4 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Solvent effects in the ultraviolet spectra of nitro- and
     aminobiphenyls

L2   ANSWER 5 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Effect of structure on reactivity of aromatic derivatives.  IV.  Effect of
     substituents on ionization constants and absorption
     spectra of some substituted derivatives of biphenylcarboxylic acids

L2   ANSWER 6 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Synthesis, spectra, and polarography of substituted 4-isothiocyanato
     biphenyls

L2   ANSWER 7 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   CH-bonding moments and infrared intensities of benzene derivatives. II.
     CH- and CD-valence vibrations of deuterated benzene monoderivatives

L2   ANSWER 8 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Electronic vibrational spectra and interaction of substituents
     via aromatic rings bound by a single bond

L2   ANSWER 9 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Electron spin resonance spectra of nitrobiphenyl radical anions

L2   ANSWER 10 OF 48  CAPLUS  COPYRIGHT 2009 ACS on STN
TI   Conjugation in the o-terphenyl system
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L2 ANSWER 11 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polarography, electron paramagnetic resonance spectra, and inductive effect of ***substituents*** in anion-radicals of p-nitrobiphenyls

L2 ANSWER 12 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Infrared spectra of monosubstituted benzenes in the 667-222 cm.-1 region

L2 ANSWER 13 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electron spin resonance spectra and the transmission of the effect of ***substituents*** in the anion radicals of p-nitrodiphenyls

L2 ANSWER 14 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effects of ***substituents*** and solvents on the ultraviolet ***absorption*** spectra of substituted cinnamaldehydes

L2 ANSWER 15 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Determination of the location of the vinyl group in vinyldiphenyl oxide isomers from the ***absorption*** spectra

L2 ANSWER 16 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Correlation of infrared intensity data with chemical reactivity indexes

L2 ANSWER 17 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Interaction of electron acceptors with bases. III. ***Absorption*** spectra of substituted polynitrobenzenes in liquid ammonia

L2 ANSWER 18 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Polar effects of ***substituents*** on the reaction rates of 4-R and 5-R-2-nitrochlorobenzenes with pipefidine in benzene

L2 ANSWER 19 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Intramolecular interaction between hydroxyl group and π-electrons. XIV. Electronic effect of the ***substituents*** on the interaction in 2-hydroxybiphenyls

L2 ANSWER 20 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Steric interactions in the ***absorption*** spectra of 2,2'-di-aroylbiphenyls and related compounds. III. ***Absorption*** spectra and structure of benzophenones

L2 ANSWER 21 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Electron spin resonance (EPR) and polarographic investigation of substituted nitrobenzene negative ions

L2 ANSWER 22 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Ultraviolet and infrared spectra of some aromatic ***nitro*** compounds

L2 ANSWER 23 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effect of ***substituents*** on the properties of molecules containing a system of conjugated π-bonds

L2 ANSWER 24 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Induction studies in several groups of halogen-containing organic compounds by their Cl35, Br79, or Br81 pure quadrupole resonance spectra

L2 ANSWER 25 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Optical investigation of mutual influence of groups in the molecules of

organic compounds

L2 ANSWER 26 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Mutual effects of para ***substituents*** of benzene in the molecules

L2 ANSWER 27 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Stable alkylation products of organonitrosohydroxylamines

L2 ANSWER 28 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI The study of steric effects in substituted diphenyls by ultraviolet ***absorption*** spectroscopy

L2 ANSWER 29 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Derective effects in aromatic substitution. XXX. Electrophilic ***substituent*** constants

L2 ANSWER 30 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Infrared ***absorption*** of heteroaromatic and benzenoid six-membered monocyclic nuclei. IV. Monosubstituted benzenes

L2 ANSWER 31 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI New route to 3- and 2,6-substituted fluorenes

L2 ANSWER 32 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Effect of the ***substituents*** on the properties of molecules of para diderivatives of benzene

L2 ANSWER 33 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Dibenzo[b,d]pyrans and related products

L2 ANSWER 34 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Light ***absorption*** studies. X. Ultraviolet spectra in acid and basic media-some further observations on the ortho effect

L2 ANSWER 35 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Influence of steric factors on the properties of dyes containing the ***biphenyl*** nucleus. VIII. Bisazo dyes from m- and p-aminobenzoyl derivatives of benzidine and 2,2'-dimethylbenzidine

L2 ANSWER 36 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Arylation of aromatic compounds by the Meerwein reaction. Evidence for aryl radicals from orientation studies

L2 ANSWER 37 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Some bromine, iodine, and indium nuclear quadrupole interaction frequencies

L2 ANSWER 38 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Organic sulfurated compounds. VI. Studies of the dibenzothiophene and dibenzothiophene sulfone series. Considerations concerning the sulfur bridge as a conductor and as an insulator of conjugation

L2 ANSWER 39 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Influence of steric factors on properties of dyes containing ***biphenyl*** rings. I. Bis-azo dyes from benzidine and from its 2-mono- and 2,2'- and 3,3'-disubstituted derivatives

L2 ANSWER 40 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Homolytic aromatic substitution. I. Action of aryl radicals on

nitrobenzene

L2 ANSWER 41 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Duration of the phosphorescence of benzene and its derivatives

L2 ANSWER 42 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI The benzidine rearrangement. II. The rearrangement of three 3,3',5,5'-tetrasubstituted hydrazobenzenes in 2:1 sulfuric acid

L2 ANSWER 43 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Decomposition reactions of aromatic diazo compounds. XII. The reaction between diazo compounds and potassium ferrocyanide

L2 ANSWER 44 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Catalytic debenzylation. The effect of substitution on the strength of the O-benzyl and N-benzyl linkages

L2 ANSWER 45 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Cis azo compounds. II

L2 ANSWER 46 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI Resonance and some physical and chemical properties of ***biphenyl*** types

L2 ANSWER 47 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI The influence of ***substituents*** on the ultraviolet ***absorption*** of two conjugated benzene chromophores

L2 ANSWER 48 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
TI ***Absorption*** spectra of ***biphenyl*** and some derivatives

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USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Jun 2009

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=> d l2 22,23,28,34,47,48 ibib abs

L2 ANSWER 22 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1961:85529 CAPLUS
DOCUMENT NUMBER: 55:85529
ORIGINAL REFERENCE NO.: 55:16136a-e
TITLE: Ultraviolet and infrared spectra of some aromatic ***nitro*** compounds
AUTHOR(S): Conduit, C. P.
CORPORATE SOURCE: Ministry Supply, Waltham Abbey, UK
SOURCE: Journal of the Chemical Society (***1959***) 3273-7
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB The ultraviolet and infrared spectra of all the isomeric di- and trinitro benzenes and toluenes were examined in order to obtain structural correlations. The ***absorption*** curves in the ultraviolet consisted mainly of a single intense maximum in the 210-80-mμ range, with one or more inflections on the long-wave-length side. Important factors in determining λmaximum are as follows: (a) a pair or more of ***nitro*** groups tends to partially reduce their conjugation, and the magnitude of the reduction is determined by their positions in the ring. Thus, λmaximum is 269 mμ for nitrobenzene, but <210.0 mμ for o-dinitrobenzene, 242, mμ for m-dinitrobenzene, and 265 mμ for p-dinitrobenzene; (b) a pair of vicinal ***nitro*** groups interferes sterically with one another so that neither can be coplanar with the ring. The conjugation of both ***substituents*** with the ring is almost 0, and the ***absorption*** approaches that of C6H6 itself (o-dinitrobenzene <210.0); (c) Me groups enhance the conjugation of ***nitro*** groups; this shifts λmaximum p-nitrotoluene 283.5 mμ. In the ortho position some steric hindrance is met; thus, λmaximum o-nitrotoluene is 265 mμ.

Infrared spectra show that the frequencies found for the asym. stretching mode of the ***nitro*** group fall into 3 ranges. For mononitro compds. this is 1509-40 cm.-1, for diniitro compds. 1539-52 cm.-1, and for trinitro compds. 1554-67 cm.-1 Slight overlapping of the ranges occurs for the mono- and dinitro series but, in general, the ranges are sufficiently distinct to be used as an indication of the degree of nitration of unknown compds. Frequencies for the sym. vibration of the ***nitro*** group exhibit little regularity with respect to the number and position of the ***nitro substituents***. Integrated intensities per NO2 group as well as band widths for the sym. and asym. vibrations for all compds. studied are also tabulated.

OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)

L2 ANSWER 23 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1961:70459 CAPLUS
DOCUMENT NUMBER: 55:70459
ORIGINAL REFERENCE NO.: 55:13343e-i,13344a
TITLE: Effect of ***substituents*** on the properties of molecules containing a system of conjugated π-bonds
AUTHOR(S): Shorygin, P. P.; Roshchupkin, V. P.; Petukhov, V. A.; Egorova, Z. S.
CORPORATE SOURCE: L. Ya. Karpov Phys.-Chem. Inst., Moscow
SOURCE: Zhurnal Fizicheskoi Khimii (***1961***), 35, 258-67
CODEN: ZFKHA9; ISSN: 0044-4537
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable

AB A study was made of the effect of para ***substituents*** on the Raman and infrared spectra of PhNO2. The ***substituent*** groups were: -H, -SO2Me, -CONH2, -F, -CO2Et, -CHO, -CH2Cl, -CCl3, -OAc,-Cl, :CH2, -NHC6H4Me-p, -Me, -CMe3, -CH2NMe2, -Br, -CO, -NMeC6H4OMe-p, -I, -CH2I, -OH, -CH:CH2, -OMe, -OEt, -OPh, -Ph, -NHAc, -NMeCHO, -SH, -SMe, -CH:NC6H4Me-p, -ferrocenyl, -NH2, -N:NPh, -CH:CHCCH:CH2, -CH:CHPh, -NHNHPh, -NHNH2, -CH:CPh2, -NHMe, -NHPh, -NMe2, -NEt2, -CH:CHCHO, -(CH:CH)3 Ph, -CH:CHC6H4NH2-p, -CH:CHC6H4NMe2-p, -CH:NC6H4NMe2-p, and -N:NC6H4NMe-p. The effect of the ***substituents*** was judged by (1) the difference, Δωs, (cm.-1), between the frequency magnitude of the sym. valence vibration of the NO2 group in the derivs. XC6H4NO2 (I) and the unsubstituted PhNO2 (II) (Raman spectra of C6H6 solns.); (2) the difference between the frequency magnitude of the unsym. vibration of I and II (infrared spectra of C6H6 solns.); (3) the magnitude of the integral intensity coefficient (Raman spectra); (4) the intensity of ***absorption*** bands of I in heptane solns.; (5) the difference, Δλ1, obtained in the case of C6H6 solns. of I and II; (6) the difference, Δ μ, between the observed magnitude of dipole moments of I and the vector sum of the moments in PhX and PhNO2(in Debye units); (7) the Hammet consts. The effect of electropos. ***substituent*** groups on the frequency of NO2 groups was the opposite to the effect of the electroneg. ***substituent*** groups. The effect of both types of ***substituents*** on the optical properties (i.e., the intensity of the Raman lines, polarability, position and the intensity of the ***absorption***) was in the same direction, though in all cases the effect of the electropos. ***substituents*** was stronger than that of the electroneg. ***substituents***. The effect of Ph-, and CH2:CH- groups on the dipole moment was very small, but very pronounced in optical properties. The effect of I on the optical properties increased with an increase in the chain of the conjugated bonds. Parameters of the electron excitation levels were affected by the presence of heavy atoms attached to

II through a -CH2-bridge.

L2 ANSWER 28 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1959:111115 CAPLUS
DOCUMENT NUMBER: 53:111115
ORIGINAL REFERENCE NO.: 53:19837f-g
TITLE: The study of steric effects in substituted diphenyls by ultraviolet ***absorption*** spectroscopy
AUTHOR(S): Beaven, G. H.
CORPORATE SOURCE: Med. Research Council Lab., Holly Hill, London
SOURCE: Steric Effects in Conjugated Systems, Proceedings of a Symposium (***1958***) 22-33
CODEN: 11XJAY
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB The effect of various ***substituents*** on the mol. conformation and electronic ***absorption*** spectra of Michler's hydrol blue (I), malachite green (II), and crystal violet (III) is discussed. The ***absorption*** maximum (mμ) in 98% AcOH and mol. extinction coeffs. are given for mono- to polymethyl derivs. of I, II, and III as well as halo, hydroxy, methoxy, acetoxy, benzoyloxy, ***nitro***, and methoxycarbonyl derivs. of II.
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L2 ANSWER 34 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1958:80917 CAPLUS
DOCUMENT NUMBER: 52:80917
ORIGINAL REFERENCE NO.: 52:14326c-e
TITLE: Light ***absorption*** studies. X. Ultraviolet spectra in acid and basic media-some further observations on the ortho effect
AUTHOR(S): Forbes, W. F.; Ralph, Audrey S.; Gosine, Rosemarie
CORPORATE SOURCE: Mem. Univ. Newfoundland, St. John's
SOURCE: Canadian Journal of Chemistry (***1958***), 36(No. 5), 869-78
CODEN: CJCHAG; ISSN: 0008-4042
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB cf. C.A. 52, 2534c. The spectra of acetophenones and related compds. were obtained in neutral solvent, 95% EtOH, concentrated H2SO4, 0.1N HCl, 0.1 and 1.0N NaOH, and at pH 3-11, and compared with previously reported spectra of substituted benzene derivs. Spectra were determined in duplicate on a Unicam S.P. 500 spectrophotometer with 1-cm. quartz cells. Evidence is adduced that the B-bands are determined primarily by steric and mesomeric (resonance) interactions. The main cause of the ortho effect in the B-band of electronic spectra is ascribed to steric interactions between vicinal ***substituents***: steric interactions explain frequent similarity in the spectra of meta and ortho isomers. The effect of a 2nd ***substituent*** on the benzene ring is a short-range interaction, of minor importance, the order of magnitude being related to the order observed for frequency displacements in some vibrational spectra and to the order of acidity consts. for some aromatic acids.
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)

L2 ANSWER 47 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1937:37638 CAPLUS
DOCUMENT NUMBER: 31:37638

ORIGINAL REFERENCE NO.: 31:5273a-c
TITLE: The influence of ***substituents*** on the ultraviolet ***absorption*** of two conjugated benzene chromophores
AUTHOR(S): Pestemer, M.; Mayer-Pitsch, E.
SOURCE: Monatshefte fuer Chemie (***1937***), 70, 104-12
CODEN: MOCMB7; ISSN: 0026-9247
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Curves and tables are given for the ***absorption*** spectra between 2500 and 4500 mm.-1 of ***biphenyl*** (I), its o-, m-and p-NH2 and NO2 and o- and p-CN derivs. in hexane or heptane and in MeOH, and its o-, m- and p-NH2.HCl derivs. in 0.1 mol. HCl. In general, substitution effects changes in the curves similar to those produced in the curves of the acetophenone and styrene analogs (C. A. 30, 8023.3) confirming the classification of the bands A and B with the same bands of pure benzene. The bands are fused into one for I and the p-derivs. The structure of band B does not depend on the C:C or C:O chromophore as such but depend on the effect of conjugation of the benzene chromophore. The amino group loses its substitution effect on salt formation with HCl.
OS.CITING REF COUNT: 2 THERE ARE 2 CAPLUS RECORDS THAT CITE THIS RECORD (2 CITINGS)

L2 ANSWER 48 OF 48 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1930:23040 CAPLUS
DOCUMENT NUMBER: 24:23040
ORIGINAL REFERENCE NO.: 24:2454c-f
TITLE: ***Absorption*** spectra of ***biphenyl*** and some derivatives
AUTHOR(S): Adam, Thomas. C. C.; Russell, Alfred
SOURCE: Journal of the Chemical Society (***1930***) 202-6
CODEN: JCSOA9; ISSN: 0368-1769
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
AB Baly, Edwards and Stewart (J. Chemical Society 89, 514(1906)) have shown that the 7-banded ***absorption*** spectrum of C6H4 can be explained by (Collie's oscillation theory (J. Chemical Society 71, 1013(1897)) for the structure of the C6H6 mol. on the assumption that each band corresponds to a make-and-break of valency. The spectrum of C10H8 was discussed in a similar manner (Baly and Tuck, C. A. 3, 778) and found to be in agreement. In the present work the resemblance manifest between the spectra of Ph2 and of its derivs. has led to a corresponding theory for Ph2. Since 1 C atom of each nucleus is bound, no valency oscillation involving only 2 C atoms can take place, nor is an oscillation involving all 6 C atoms possible. The spectroscopic evidence points to the existence of a virtual p-bond in the Ph2 mol., making the 4-C atom the stable member of the ring. The spectra obtained for the 2 derivs. bear out the theory in the following respects: The 4-C atom being partially bound by a virtual bond, any electronic disturbance which includes the atom will be small compared with the typical disturbance and the resulting band will be absorbed in the typical band. If the main pulsation is suppressed by a 2-***substituent***, then selective ***absorption*** will be eliminated, except in so far as the 4-C atom is free to oscillate. In practice, 2-O2NC6H4Ph shows 1 shallow band and the heavily substituted (2-PhC6H4C6H4)2 shows a band still shallower. Data are given, in the form of curves, for Ph2, and the 4-NO2, 4-NH3 (and HCl salt), 4-F, 4-Cl, 4-Br, 2-NO2, 4-diphenylyl and 2,2'-diphenylyl derivs.

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